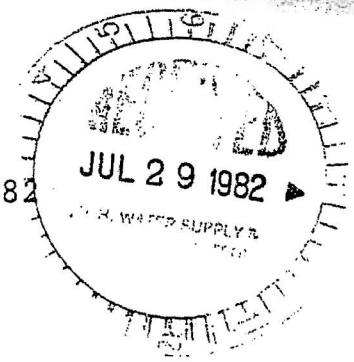
JAMES RIVER CORPORATION
BERLIN-GORHAM GROUP
650 Main Street, Berlin, NH 03570 603-752-4600

Copy



July 27, 1982

N.H. Water Supply & Pollution
Control Comm.
Hazen Drive
Concord, N.H. 03301

ATTN: LYNN WOODARD

Dear Mr. Woodard;

As related to you on July 20, we had an oil spill from the new mill at the Floc Plant. This was caused by oil leaking from a gear case into a floor drain which was subsequently pumped to the river. The amount which was lost to the river was probably less than five gallons.

The gear case was repaired on July 21st, and no oil went to the river after July 20, when the sewers were temporarily sealed. Presently this sump as been repiped so that it cannot send oil to the river again.

If you need additional information, please contact me.

Sincerely,

Raymond H. Danforth

Raymond H. Danforth
Env/Tech Director

RHD:pl

cc: J. L. Sanborn
R. E. Moores
C. M. Williams
H. Chubb

E.P.A. - Region 1

JAMES RIVER CORPORATION
BERLIN/GORHAM GROUP
650 Main St., Berlin, NH 03570 (603) 752-4600

January 6, 1983

New Hampshire Water Supply and
Pollution Control Comm.
Health & Welfare Bldg.
Hazen Drive
Concord, N.H. 03301

ATTN: TOM BOYER

Dear Mr. Boyer;

As discussed on January 5, 1984, there was a leak of diesel fuel onto our property from a truck not owned by James River Corp.

The details of the truck involved are:

DRIVER	Thomas Harris
COMPANY	DSS Trucking
PHONE	1-800-438-5990
TRUCK #	2123
TRAILER #	82282

The spill was caused by the fuel line breaking from the tank. We estimate that about 100-200 gallons of fuel were lost onto the ground. James River elected to clean up the area by spreading sawdust onto the pooled fuel, absorbing it and then removing the sawdust/ fuel oil for incineration. The area involved was not near any body of water, was on pavement and was not expected to effect any water. It was inspected by the Berlin Health Department.

If you have any questions, please contact me.

Sincerely,
Raymond H. Danforth

Raymond H. Danforth
Env. Director

RHD:pl

cc: R. E. Moores
M. C. Tasso
D. Plante
J. L. Sanborn
C. M. Williams

OIL SPILL REPORT

Note: Please obtain as much as possible of the following information:

1. Party reporting spillage/tel. no. Ray Danforth / 752-4600
2. Date of Spill Sept 29
3. Spiller/tel. no. James River Corp / 752-4600
4. Location Berlin
5. Cause Leak
6. Amount/Type gas oil / 1 gallon
7. Land/Water WATER
8. Name & Distance to surface water or water supply Androscoggin River
9. Fire/Safety Hazard N/A
10. Those notified of Spill NHDES-PEC
    EPA
11. Cleanup
12. Action Taken:

Date 10/13/82 Time 807 AM Message taken by: MB

Investigation by: —

JAMES RIVER CORPORATION
BERLIN-GORHAM GROUP
650 Main Street, Berlin, NH 03570 603-752-4600

April 5, 1982

Regional Administration, Region I
U.S. Environmental Protection Agency
John F. Kennedy Federal Bldg.
Boston, Mass. 02203

RE: JAMES RIVER CORP. BERLIN, N.H.
NPDES PERMIT NOS. NH 0000655
UNTREATED DISCHARGE TO THE RIVER

Gentlemen;

As required by Part II - A. Management Requirements Item 2- Non-Compliance of our permit, we are required to report the unpermitted discharge to the river.

On April 4, sometime between 7:10 pm and 8:15 pm a leak developed at our caustic unloading station at the Burgess Mill. This was discovered at 8:15 pm and the valve closed on the rail car. Clean-up procedures were immediately instituted which included spreading sawdust to absorb the sodium hydroxide and then removing the same.

We estimate that the amount lost was between 1400 and 2400 gallons and that at least half was recovered.

pH samples were taken at the Shelburne N.H. bridges between 9:30 and 10:45 pm. The values ranged between 6.6 and 6.7. No fish kill was observed.

Both the Coast Guard and State were notified on April 5th. The Androscoggin River flow on April 4th was 2363 CFS.

If you require additional information, please contact me.

Sincerely,
Raymond H. Danforth
Raymond H. Danforth
Env. Director

cc: J. L. Sanborn
R. E. Moores
C. M. Williams
R. Nylander - NHWSPCC
T. Sweeney - NHBSW

OIL SPILL REPORT

Note: Please obtain as much as possible of the following information:

1. Party reporting spillage/tel. no. Ray Danaforth / 752-4600
2. Date of Spill 8/12/81
3. Spiller/tel. no. James River Co
4. Location Berlin in Floc Plant
5. Cause unknown - may be leak in cooling water line - leaky bearing
6. Amount/Type 1 gallon more or less / lub oil
7. Land/Water Water
8. Name & Distance to surface water or water supply Androscoggin River
9. Fire/Safety Hazard N/A
10. Those notified of Spill Coast Guard NHWSPCC
11. Cleanup Pads are in Place
12. Action Taken: - none

Date 8/12/81 Time 2:50 PM Message taken by: TRB

Investigation by: N/A

OIL SPILL REPORT TO INDUSTRIAL WASTE [illegible]

Note: Please obtain as much as possible of the following information:

1. Party reporting spillage/tel. no. Ray Danforth (James River Co.) 752-4600
2. Date Aug 7 1981
3. Spiller/tel. no. James River Co
4. Location Berlin
5. Cause runoff from Fe storage area
6. Amount/Type #2 Suspect less than 1 gallon Gasoline sheet
7. Land/Water Androscoggin
8. Name & Distance to surface water
9. Fire/Safety hazard None
10. Those notified of Spill Coast Guard -

Coast Guard estimate about 1 gallon in water

11. Cleanup will place pads down
12. Action taken: none at this time.

8/12/81 - No oil on river from this spill - must have been runoff

Date 8/7/81 Time 1:00 PM Message taken by: TRB

OIL SPILL REPORT TO INDUSTRIAL WASTE DIVISION

Note: Please obtain as much as possible of the following information:

1. Party reporting spillage/tel. no. Ray Danforth, Brown Co.
2. Date 7/24/81
3. Spiller/tel. no. Brown Co.
4. Location Steam Plant @ Brown Co.
5. Cause Break in oil recirculation line. Oil to floor drain to treatment plant (Burgess)
6. Amount/Type 100-200 / #6
7. Land/Water Confined in WWTF. Trace to Andro. River
8. Name & Distance to surface water Androscoggin River
9. Fire/Safety hazard No
10. Those notified of Spill USCG
    WSPCC
11. Cleanup Boom in Sec. clarifier. Pads in primary
12. Action taken: Maine Coastal Services en route to cleanup. ETA 3hrs.

Break occurred @ 11:PM 7/23/81.
5 AM in secondary clarifiers

Date 7/24/81 Time 10:00 Message taken by: E

REPORT OF PHONE CALL

In ✓ Out _____ File Oil Spill 81

Date 6/12/81 Time 9:00 am Routing DWE

Person Contacted Blaise Heroux Phone No. 752-3000

Location Berlin

Subject James River Corporation

Summary

Blaise reported that on 6/11/81 he had met with Ray Newcomb and had visited the site. Very little oil was appearing in the river. The waste oil tank has been removed and the Company is awaiting its replacement. The #2 fuel oil tank will be removed.

Blaise suspected that subsurface area may be saturated with oils and will require periodic monitoring on a long term basis. The area has been used for underground storage for a long time.

Further Blaise suggested he periodically stop in to ck the pads and booms which are being retained by a small dam constructed by 2x12's.

Signature

OIL SPILL REPORT TO INDUSTRIAL WASTE DIVISION

Note: Please obtain as much as possible of the following information:

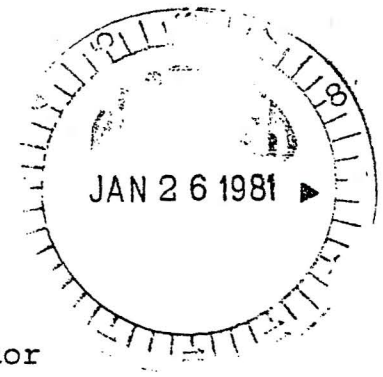
1. Party reporting spillage Ray Danforth James Rivers Corp, Berlin
2. Location of spillage Service Garage, Hudson St, Berlin
3. Gallons/type of oil spilled unk/waste oil (crankcase)
4. Confined to land/or in water/both water
5. Gallons to water unk
6. Action taken Containment - boom & pads
   Corrective Action - located leaking tank - will pump it out tomorrow - will dig up other tanks in area to check for leaks
7. Party responsible for spillage James River Corp
8. Those notified of spillage USCG - ERA & WS&PCC

- See item #28 Brown Co - 1980 file
- Ray Danforth indicated the tank may have been leaking for some time. Location of tank is approx. 200 ft from culvert that empties into river. The soil in area is gravel.

Date 6/8/81 Time 2:45 pm Message taken by: Lou

Recommendation:
This looks as though it may have been an ongoing problem, therefore, we should give the company time to react, then a staff rep should visit the site.
Danforth will call back in a couple of days with additional info.

(over)



January 20, 1981

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Raymond Danforth, Environmental Director
James River Corp.
650 Main Street
Berlin, New Hampshire 03570

Re: Oil Spill at your facility first noticed on November 1, 1980

Dear Mr. Danforth:

The Environmental Protection Agency has received a report of the referenced oil discharge. To enable us to determine whether there has been a violation of Section 311(b)(3) of the Clean Water Act (the "Act"), 33 U.S.C. §1321(b)(3), you are hereby required, pursuant to Section 308 of the Act, 33 U.S.C. §1318, to answer the questions appended to this letter and to send your answers within fourteen (14) days of your receipt of this letter to the following address:

U.S. Environmental Protection Agency
Enforcement Division
J.F.K. Federal Building - Room 2103
Boston, Massachusetts 02203
Attn: Water Compliance Clerk

You should be aware that failure to respond as required or submittal of false information may result in further enforcement action in federal district court in which civil or criminal penalties under Section 309 of the Act, 33 U.S.C. §1319, could be sought.

You may, if you desire, assert a business confidentiality claim covering part or all of the information requested, in the manner described by 40 C.F.R. §2.203(b), 41 Fed. Reg. 36907 (September 1, 1976). Information covered by such a claim will be disclosed by EPA only to the extent, and by means of the procedures, set forth in 40 C.F.R. Part 2, Subpart B, 41 Fed. Reg. 36906-36918 (September 1, 1976). If no such claim accompanies the information when it is received by EPA, it may be made available to the

105 Loudon Road • Concord, New Hampshire 03301

To DON ZEAMAN, BIOLOGIST II

Date 11/12/80

Subject OIL SPILL AT BROWN CO. SERVICE GARAGE

YOU HAVE ALL THE BACKGROUND INFO ON THIS FROM MR. DANFORTH, ON BROWN CO. OIL SPILL.

I MET WITH MR. DANFORTH ON NOV. 12th 1980 AT 11:00 AM TO VIEW THE SITE,

OIL WHICH HAS LEAKED OUT OF THE OLD TANK IS BEING INTERCEPTED BY AN CULVERT IN THE PARKING AREA OF THE SERVICE GARAGE

PADS HAVE BEEN PLACED JUST BELOW THE CULVERT DISCHARGE, WHICH SEEM TO BE CONTAINING THE OIL, TO A 90% - 95% EFFICIENCY

THESE PADS ARE BEING REPLACED EVERY OTHER DAY.

AT PRESENT THERE SEEM TO BE NO ADVERSE PROBLEMS CREATED, BUT IF THIS PERSISTS INTO NEXT SPRING, OTHER STEPS SHOULD BE TAKEN TO CORRECT THIS SITUATION

Peter G. Ramm

area is shallow to bedrock. Disruption of access road likely w/ any interception trench.

Date 11/3/80 Time 2:45 pm Message taken by: DWZ

OIL SPILL REPORT TO INDUSTRIAL WASTE DIVISION

Note: Please obtain as much as possible of the following information:

1. Party reporting spillage Brown Co. – Ray Danforth 752-4600 EXT. 2580
2. Location of spillage Underground tanks (est) 11,000-3000 cap.
3. Gallons/type of oil spilled Unknown – minor #2
4. Confined to land/or in water/both to trib to Androscoggin R. Flow 1-2 cfs
5. Gallons to water unknown
6. Action taken Containment & removal @ present. Tank removed week of Oct. 27th 100 FT.
7. Party responsible for spillage Brown Co
8. Those notified of spillage WSPCC
   USCG

DWZ call to Blaise Heroux 11/3. Left message to have him call back. Have Blaise check situation.

area is shallow to bedrock. Disruption of access road likely w/ any interception trench.

Date 11/3/80 Time 2:45 pm Message taken by: DWZ

650 Main Street, Berlin, New Hampshire 03570 603-752-4800

May 23, 1980

Mr. Lynn Woodward
Water Supply & Pollution Control Comm.
Box 95
Hazen Drive
Concord, N.H. 03301

Dear Lynn;

This note is to confirm our phone conversation of May 22, 1980, regarding an oil spill at the Converse Rubber Upper Plant. I inspected the site on May 22, and found that a trench was being dug to intercept the oil before it reached the pond beside the Dead River. Brown Co. will give Converse Rubber permission to dig an interceptor trench and to fence the same on Brown Co. property.

We also understand that Brown Co. is under no liability for this oil spill even though it may migrate onto Brown Co. land and from the same into a water body.

Brown Co. will cooperate with Converse Rubber and/or any officials to allow them to contain and collect this spill.

Sincerely,

Raymond H. Danforth

Raymond H. Danforth
Environmental Director

RHD:pl

cc: C. M. Williams
K. Scott
J. L. Sanborn
R. E. Moores

OIL SPILL REPORT TO INDUSTRIAL WASTE DIVISION

Note: Please obtain as much as possible of the following information:

1. Party reporting spillage Earl Hanson, Brown Co.
2. Location of spillage Above Brown Co. near Morris Co. Bridge
3. Gallons/type of oil spilled unknown
4. Confined to land/or in water/both water
5. Gallons to water unknown
6. Action taken Called W/S & PCC
7. Party responsible for spillage unknown
8. Those notified of spillage W/S & PCC

Date 5/16/79 Time 10:45 a.m. Message taken by: L.A. Woodard

John Wilkinson, Brown Co. observed an oil slick approximately 10-15 feet wide on the Androscoggin River in the vicinity of the Bridge below Morris Co. (Lamb Company) and above Brown Co. The slick was observed at approximately 10:00 a.m. on 5/16/79.

OIL SPILL REPORT TO INDUSTRIAL WASTE DIVISION

Note: Please obtain as much as possible of the following information:

1. Party reporting spillage Earl Hanson, Brown Co.
2. Location of spillage Burgess Mill, Berlin, NH.
3. Gallons/type of oil spilled unknown - #6 (rough est. 200gals)
4. Confined to land/or in water/both Land
5. Gallons to water None observed
6. Action taken exact cause not determined - occurred in area where storage tank transfers take place. Oil flowed overland but was contained before reaching a city storm drain.
7. Party responsible for spillage Brown Co.
8. Those notified of spillage WSPCC

Date 1/29/79 Time 8:50 AM Message taken by: RAN

REPORT OF PHONE CALL

In _____ Out ✓ File Oil Spill

Date 11/1/74 Time 10:50 PM Routing _____

Person Contacted Earl Hanson Phone No. 752-4[illegible]

Location Brown Co. Berlin

Subject Oil Spill - #6 Fuel

Summary Following notification by the State Police we were notified of the oil spill by Brown Co. I called Earl Hanson to determine what the situation was and what was being done.

According to Hanson the scrubbers on the recovery boilers were being steamed out when a back up in the reclamate system caused an estimated 50 gals of #6 oil to be discharged to the sewer. Hanson believed most of the oil was trapped in the PS Co. hydro station forebay but as a precaution he ordered absorbent to be put out at the Cascade mill. PS Co. agreed to keep the river water level below the dam so that the oil would hopefully remain in the forebay. The same instructions were given to the operators of the Brown Co hydro station between PS Co + Cascade. Spill Control Services had been called in and will have a representative on site at 8 AM tomorrow. Hanson will call tomorrow to inform me of the situation.

RAN
Signature

OIL SPILL REPORT

Note: Please obtain as much as possible of the following information:

1. Party reporting spillage/tel. no. John Wilkinson/James [illegible]
2. Date of Spill 6/21/78
3. Spiller/tel. no. James [illegible] Corp.
4. Location
5. Cause - Floor drains -
6. Amount/Type 5 gal of lubricating
7. Land/Water [illegible]
8. Name & Distance to surface water or water supply ——
9. Fire/Safety Hazard ——
10. Those notified of Spill ——
11. Cleanup - Absorbents & brooms.
12. Action Taken:

Date June 22 78 Time PM Message taken by: D.B.

Investigation by:

BROWN COMPANY
Berlin-Gorham Division
650 Main Street, Berlin, New Hampshire 03570 603-752-4600

January 31, 1978

Mr. Russell Nylander
N.H. Water Supply and Pollution Control Commission
103 London Road
Concord, N.H. 03301

RE: Brown Company
Spill of Sodium Chlorite

Dear Mr. Nylander;

This is in follow-up to our phone conversations regarding the spill of 10 - 11,000 gallons of sodium chlorite to the river on January 3, 1978.

The spill occurred due to a failure of the manhole cover on the fiberglass tank and spilled to the concrete dike surrounding the tank. The sodium chlorite then flowed through the sand bottom on the dike to the river about 75 feet away.

If additional information is needed please let me know.

Sincerely,

Earl L. Hanson

E. L. Hanson
Coordinator of
Environmental Services

ELH/pl

cc: E. T. Dean
C. M. Williams

August 17, 1976

File: 06-000-1931

Mr. Russell A. Nylander
New Hampshire Water Supply &
Pollution Control Commission
105 Loudon Road
Concord, New Hampshire 03301

Dear Mr. Nylander:

This is to summarize the events following the oil spill that was reported to your office on Saturday, August 14, 1976, at about 9:00 p.m.

At approximately 7:10 p.m., the water tester discovered a leak on our #6 fuel oil pump and blew the alarm for the watch engineer. They immediately switched pumps and isolated the leak (later found to be due to a broken nipple). With the help of the utility man, they built a dike around the leak to prevent further discharge into the sewer system.

At about 8:00 p.m., the watch engineer, following the guidelines in our Spill Prevention Control & Countermeasure Plan, notified me about the spill. The river crew was then notified and absorbent blankets put in the forebay at our Cascade Mill.

Upon investigation, an oil slick was detected just above the Public Service Company dam and forebay. This led to the belief that the oil spill had reached the river. The site of the spill was then checked to be sure the flow of oil was stopped and contained. We estimated the size of the spill was about fifty (50) gallons.

Seacoast Ocean Services of Portland, Maine was then contacted and arrangements made for a clean-up crew to be at the mill at dawn the next morning. In the meantime, the following precautions were taken to prevent further spreading of the oil.

a. Public Service Company of New Hampshire was contacted and agreed to hold the generating level at Smith Station to prevent overflowing the splashboards.

b. A man was assigned to watch the absorbent blankets at the Cascade forebay and instructed to alert us if he detected an oil slick.

FROM Stewart L. Parker, P.E.
Sanitary Engineer

AT (OFFICE) Water Supply & Pollution Control Commission

SUBJECT Oil Spill - Brown Paper Company

TO Russell A. Nylander, P. E. ✓
Associate Sanitary Engineer

Date of Spill: August 14, 1976

Reported by: New Hampshire State Police to Stewart Parker on August 14, 1976

Situation: A cracked nipple on a pump line allowed #6 oil to leak an estimated 50 gallons of oil. Earl Hanson, Environmental Engineer, Brown Paper Company called me Saturday evening to inform me there were several places downstream where oil would be contained and they planned clean-up Sunday morning in daylight.

A second call, Sunday morning, from Earl brought word that only a light sheen was present at any of the containment locations. He surmised that loss of oil to the river was negligible.

The spillage was reported to the Environmental Protection Agency by Brown Paper Company.

Stewart L. Parker, P.E.
Sanitary Engineer

SLP:bml

At about 9:00 p.m., the New Hampshire State Police and United States Environmental Protection Agency - Region I were notified. Later Mr. Stu. Parker of the New Hampshire Water Supply & Pollution Control Commission and Mr. Steve Novick of Region I of Environmental Protection Agency returned my call and were advised of the situation.

Clean-up activities started at about 6:30 a.m. on Sunday, August 15, 1976, in the forebay area of the Public Service dam. All that was detectable was an oil slick covering an area of about 500 square feet. There was no sign of any #6 fuel oil.

After cleaning up the oil slick, the boat was taken up river about one-quarter (¼) mile and both sides of the river were checked. There was no sign of #6 oil. Next, the sewer coming out of the Boiler House area was checked for signs of #6 fuel oil, again there was none present.

At 8:30 a.m., clean-up activities were completed and Mr. Stu. Parker of the New Hampshire Water Supply & Pollution Control Commission and Mr. Berger of Region I of the Environmental Protection Agency were informed.

In conclusion, it is my opinion that there was a negligible amount of #6 oil discharged into the Androscoggin River. The leak was apparently found and isolated before any significant amount of oil entered the sewer system. The oil slick observed shortly after the leak was detected apparently resulted from water that came in contact with the oil before it was isolated and contained.

Very truly yours,

BROWN COMPANY
Engineering Department

Earl L. Hanson

Earl L. Hanson
Coordinator of
Environmental Services

ELH:maj
8-17-76
cc: Mr. Carl Eidam, U.S. E.P.A. - Lexington
Mr. C. M. Williams
Mr. E. T. Dean
Mr. H. W. Mooseker
Mr. R. E. Moores
Mr. J. B. Bradley

November 22, 1974

U. S. Environmental Protection Agency
Oil and Hazardous Materials Section
240 Highland Avenue
Needham Heights, Mass. 02194

Attention: Mr. Dave Boyce

Dear Mr. Boyce:

Re: Oil Spill - Brown Company - Berlin-Gorham Division, Berlin, N.H.

Below is a summary of the oil spill from the Burgess area of Brown Company on November 20, 1974.

River Receiving Oil Spill: Androscoggin River

Type of Oil: #6 oil

Volume of Spill: Originally reported at about 50 gallons (about one gallon recovered with no other visible sign of #6 oil).

Time Spill Detected: About 6:45 p.m. on November 19, 1974 by E. Hanson

Cause of Spill: A 40# steam line was used to flush a new oil line, the oil pump was started after 5:30 p.m. without closing the steam valve. Due to the higher pressure of the oil pump, the oil backed up into the steam line and entered the condensate system. The oil that spilled was from a steam trap that vents to the sewer in the demineralizing area of the Burgess Mill.

Action Taken:

1. Flow isolated and stopped immediately.

2. Sewer blocked and flow stopped - absorbent material used to stop flow of oil.

3. Absorbent material (Conweb) laid in front of racks at Cascade Forebay - arrangements made to keep forebay level six inches below dam to prevent overflow at dam. Area manned until 4:00 p.m. the next day (see map). No sign of #6 oil at this area.

4. Public Service Company of N.H. was notified and agreed to maintain their forebay level so as to prevent overflowing at the dam. There was no overflow at time of spill.

PHONE CALL

In ✓ Out _____ File 0.1 Spill

Date 1/20/74 Time 11:00 AM Routing _____

Person Contacted Earl Hinson Phone No. _____

Location Brown Co., Berlin

Subject 0.1 Spill

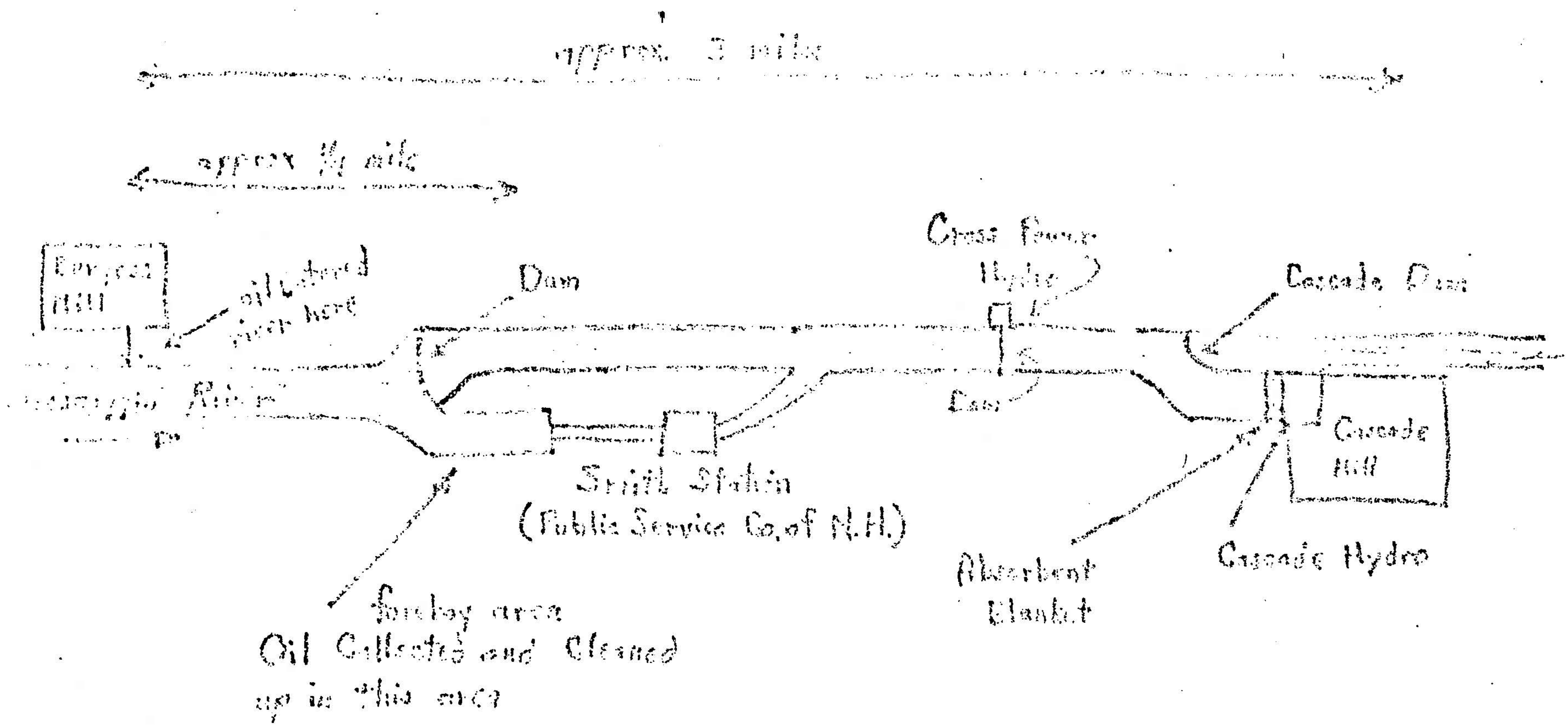
Summary Hinson reported that Seaward Ocean Services had cleaned up an estimated 1 gal of #6 Fuel. Before clean up all that could be seen was a sheen on PSCo hydro forebay.

Hinson stated that there was no evidence of oil at Cascade (2 hr. time of travel from Burgess), on PSCo trash racks, or on river banks between Burgess + PSCo. Absorbent material will be left out at Cascade until 4PM today.

Hinson intends to call Carl Eidam EPA to brief him on the occurrence. I indicated that EPA would want a written report of the incident.

RAN
Signature

Brown Co - Berlin-Gorham Division - Burgess Mill



Not to scale
E. L. Hanson
11/31/71

Due to the river flow through the Smith Station Forebay area, as long as the dam did not overflow the oil would collect in this area.

The Public Service Co. of N.H. agreed to assist with the clean-up activities.

5. The Seacoast Ocean Services Co. of Portland Maine was contacted and arrangements made to start clean-up activities at 8:00 a.m. the next day.

6. Clean-up activities were completed by 10:00 a.m. About one gallon of oil was recovered in the Smith Station Forebay with no signs of #6 oil along the river bank.

State and Federal Authorities Notified:

11/19/74 - 8:20 p.m. The N.H. State Police were notified. They contacted Mr. Russ Nylander who called Brown Co. that evening to review countermeasure plans to be taken.

8:25 p.m. Called the Coast Guard at Portsmouth, N.H. They were not familiar with procedures and suggested I call Region I EPA .

8:30 p.m. Called the Region I EPA and gave information on spill to the answering service.

11/20/74 10:45 a.m. Called Mr. Russ Nylander of N.H. Water Pollution Control Commission and advised him that clean-up was completed.

11:00 a.m. Called Mr. Dave Boyce of Region I EPA and reviewed the oil spill and advised him that the clean-up was completed.

Earl L. Hanson
Environmental Coordinator

ELH:pfv

Enc.

cc: New Hampshire Water Supply and Pollution Control Commission
105 Loudon Road
Concord, N.H. 03301
Attn. Mr. Russell Nylander

Mr. E. Dean
Mr. C. Williams

Burgess Mill Permits

Type of Permit	Permit Number	Expiration Date	Device Description
Air Stationary Source Permit	PO-B-1805	5/31/2004	Boiler #1/CE #6 Oil
	PO-B-1806	5/31/2004	Boiler #2/BW # 6 Oil
	PO-B-1807	5/31/2004	Boiler #3/ZN # 6 Oil
	PO-B-1808	5/31/2004	Boiler #4/CB # 6 Oil
	PO-B-1809	5/31/2004	Boiler #9/CE # 6 Oil
	PO-B-1810	5/31/2004	Boiler #12/ZN # 6 Oil
	PO-B-1811	5/31/2004	Boiler #14/ZN # 6 Oil
	PO-B-1811	5/31/2004	Boiler #14/ZN Bark
	PO-B-1827	5/31/2004	Emerg. Diesel/Cat 603
	PO-B-2003	5/31/2004	Pump Diesel/CMM 380 HP
	PO-B-2005	5/31/2004	Temp Boiler/CB #6 Oil
	PO-BP-2644	5/31/2004	Recovery Unit #11/#6
	PO-BP-2644	5/31/2004	Recovery Unit #11/BW
	PO-BP-2645	5/31/2004	Smelt Tank
	PO-BP-2647	5/31/2004	Lime Kiln #2/#6 Oil
	PO-BP-2647	5/31/2004	Lime Kiln #2/ADTUP
Groundwater Release Detection Permit	GWP-900911-B-002	8/19/2002	Burgess Mill Lagoons
National Pollutant Discharge Elimination System Permit	NH0000655	unknown	Surface Water Discharge from Wastewater Treatment Plant

Note: Air permits were not separated by facility. Each permit may apply to either or both mills (Cascade and Burgess).

Air Stationary Source Permit & Device Information

Questions/Comments: Air Staionary Sources Contact

Id	Name	Permit	Permit Expiration Date	Device Description
3300700001	PULP & PAPER OF AMERICA	NO PERMIT		FUGITIVE EMISSIONS
		NO PERMIT		LIME SLAKER
		NO PERMIT		YANKEE HOOD DRYER/#2
		PO-BP-2675	09/30/1997	BLEACHING PROCESS
		TP-BP-0542	12/31/1996	NCG THERMAL OXIDIZER
		PO-B-1805	05/31/2004	BOILER #1/CE #6 OIL
		PO-B-1806	05/31/2004	BOILER #2/BW #6 OIL
		PO-B-1807	05/31/2004	BOILER #3/ZN #6 OIL
		PO-B-1808	05/31/2004	BOILER #4/CB #6 OIL
		PO-B-1809	05/31/2004	BOILER #9/CE #6 OIL
		PO-B-1810	05/31/2004	BOILER #12/ZN #6 OIL
		PO-B-1811	05/31/2004	BOILER #14/ZN #6 OIL
		PO-B-1811	05/31/2004	BOILER #14/ZN BARK
		PO-B-1827	05/31/2004	EMERG. DIESEL/CAT 603
		PO-B-2003	05/31/2004	PUMP DIESEL/CMM 380HP
		PO-B-2005	05/31/2004	TEMP BOILER/CB #6 OIL
		PO-BP-2644	05/31/2004	RECOVERY UNIT #11/#6
		PO-BP-2644	05/31/2004	RECOVERY UNIT #11/BW
		PO-BP-2645	05/31/2004	SMELT TANK
		PO-BP-2647	05/31/2004	LIME KILN #2/#6 OIL

Row(s) 1 - 20

Next

New Hampshire Department of Environmental Services

Go Back

Air Stationary Source Permit & Device Information

Questions/Comments: Air Staionary Sources Contact

Id	Name	Permit	Permit Expiration Date	Device Description
3300700001	PULP & PAPER OF AMERICA	PO-BP-2647	05/31/2004	LIME KILN #2/ADTUP

Row(s) 21 - 21

Previous

New Hampshire Department of Environmental Services

Go Back

Air Stationary Source Permit & Device Information

Questions/Comments: Air Staionary Sources Contact

Id	Name	Permit	Permit Expiration Date	Device Description
3300700002	PULP & PAPER OF AMERICA LLC	TP-B-0435	07/31/1999	PUMP DIESEL/CMM 380HP
		TP-B-0431	06/30/1999	TEMP BOILER/NEB #6 OI
		TP-BP-0435	11/30/1997	BLEACH PROCESS
		PO-BP-2645	02/28/1997	SMELT TNK/BLK LQR/#6
		PO-B-1809	12/31/1996	BOILER/#6 OIL
		TP-B-0242	05/31/1996	BOILER/WOOD
		TP-B-0242	05/31/1996	BOILER/#6 OIL
		TP-BP-0425	04/30/1996	BLACK LIQUOR/#6 OIL
		PO-B-1810	02/28/1996	BOILER/#6 OIL
		TP-BP-0428	02/28/1996	LIME KILN/#6 OIL
		PO-BP-2346	11/30/1995	SMELTTANK/BLACK LIQUO
		PO-BP-2344	11/30/1993	BLACK LIQUOR OXIDIZER
		PO-BP-2379	11/30/1993	BLACK LIQUOR OXIDIZR

Row(s) 1 - 13

State of New Hampshire
DEPARTMENT OF ENVIRONMENTAL SERVICES
6 Hazen Drive, P.O. Box 95, Concord, NH 03302-0095
(603) 271-2900 FAX (603) 271-2456

August 10, 1999

Mr. Jeffrey O'Hearn
Pulp & Paper of America LLC
650 Main Street
Berlin, New Hampshire 03570

Re: BERLIN - Burgess Mill Lagoons, Revised Groundwater Release Detection Permit (DES Site #199009011)

Dear Mr. O'Hearn:

Enclosed please find revised Groundwater Release Detection Permit #GWP-900911-B-002, issued by the Department of Environmental Services (Department). This permit is issued for a period of five years to monitor the groundwater quality at the Burgess Mill lagoons, and is a revision of your existing permit issued on August 20, 1997. As per your recent request, the permit has been revised to reflect a transfer of facility ownership from Crown Paper Company to Pulp & Paper of America LLC.

As with your existing permit, please continue to send all required sampling results and annual monitoring summaries to the Department's Groundwater Release Detection Permits Coordinator at the letterhead address, and include with all correspondence a cover letter with the Department's identification number for the site (i.e., DES #199009011).

Should you have any questions or require additional information, please contact me directly at the Department of Environmental Services at (603) 271-2999.

Sincerely,

Rebecca S. Lawrence

Rebecca S. Lawrence
Waste Management Division

RSL/ama
I:\GWRSL\900911R2.PMT

Enclosure: GWP-900911-B-002
cc: HWRB File (#199009011)

NEW HAMPSHIRE DEPARTMENT OF Environmental Services

The

NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES

hereby issues

GROUNDWATER RELEASE DETECTION PERMIT NO. GWP-900911-B-002

AS REVISED

to the permittee

PULP & PAPER OF AMERICA LLC

for release detection monitoring at the

BURGESS MILL LAGOONS

in BERLIN, N.H.

via the groundwater monitoring system comprised of

4 monitoring wells and the emergency lagoon underdrain

as depicted on the Site Plan entitled

"Burgess Mill Lagoon - Interpreted Phreatic Surface"

dated May 12, 1997 prepared by Sevee & Maher Engineers, Inc.

TO: PULP & PAPER OF AMERICA LLC
650 MAIN STREET
BERLIN, NEW HAMPSHIRE 03570

Date of Issuance: August 20, 1997
Date of Revision #1: March 26, 1999
Date of Revision #2: August 10, 1999
Date of Expiration: August 19, 2002

Pursuant to authority in N.H. RSA 485-C:13, the New Hampshire Department of Environmental Services (Department), hereby grants this permit to monitor groundwater quality for five years at the above-described facility, subject to the following conditions:

(continued)

STANDARD RELEASE DETECTION CONDITIONS

1. The permittee shall not cause a "regulated contaminant", as defined in RSA 485-C, to be introduced to the ground or groundwater.

2. The permittee shall not cause groundwater degradation which results in a violation of surface water quality regulations (NH Code of Administrative Rules Part Env-Ws 430) in any surface water body.

3. The permittee shall allow any authorized staff of the Department, or its agent, to enter the property covered by this permit for the purpose of collecting information, examining records, collecting samples, or undertaking other action associated with this permit.

4. The permittee shall apply for the renewal of this permit 90 days prior to its expiration date.

5. This permit is transferable only upon written request to, and approval of, the Department. Compliance with the existing Permit shall be established prior to ownership transfer. Transfer requests shall include the name and address of the person to whom the permit transfer is requested, signature of the current permittee, and a summary of all monitoring results to date.

6. The Department reserves the right, under NH Code of Administrative Rules Part Env-Wm 1403, to require additional hydrogeologic studies and/or remedial measures if information indicating the need for such work is received.

7. The permittee shall maintain a water quality monitoring program and submit monitoring results to the Department's Groundwater Release Detection Permits Coordinator no later than 45 days after sampling. Samples shall be taken from the on-site monitoring wells and emergency lagoon underdrain as shown and labeled on the referenced site plan and listed in the following table in accordance with the schedule outlined herein:

Monitoring Locations	Sampling Frequency	Parameters
MW-1B, MW-2B, MW-3B, MW-4B, emergency lagoon underdrain	April/May & November of each year	specific conductance @ 25^0 C, pH, chloride, sulfate, TKN-N, COD
same as above	November 2000	VOCs (via EPA Method 8260B or current revision) Expanded List Metals

Samples shall be obtained using sampling procedures and protocol described in "Practical Guide for Ground-Water Sampling" and "RCRA Ground-Water Monitoring Enforcement Guidance" (U.S. EPA current editions). Samples shall be analyzed by a laboratory certified by U.S. EPA or the Department. All overburden groundwater samples collected for metals analyses shall be analyzed for dissolved metals and field-filtered (with a 0.45-micron filter) and acidified to a pH $\leq$ 2 at the time of collection. Surface water samples, samples collected from bedrock or water supply wells, and samples from the emergency lagoon underdrain shall be analyzed for total metals and shall not be filtered. As referred to herein, the term "Expanded List Metals" refers to: antimony, arsenic, barium, beryllium, cadmium, chromium, lead, mercury, selenium, thallium and silver. Summaries of water quality shall be submitted annually to the Department's Groundwater Release Detection Permits Coordinator, in the month of January using a format acceptable to the Department.

(continued)

8. Issuance of this permit is based on the Groundwater Release Detection Permit Application dated May 7, 1997 and historical file information found in DES file #199009011. The Department may require additional hydrogeologic studies and/or remedial measures if invalid or inaccurate data are submitted.

ADDITIONAL CONDITIONS FOR WASTEWATER LAGOONS

9. The permittee shall notify the Department's Groundwater Release Detection Permits Coordinator (in writing) of any alteration to, or abandonment of, the lagoon system.

10. All grit, oil, sludge, or other wastes which result from the operation of the treatment system to be disposed of in New Hampshire shall be disposed of only in a facility approved by the Department for such disposal.

SPECIAL CONDITION FOR THIS PERMIT

11. The permittee shall conduct inspections of the emergency lagoon's liner for any damage compromising its integrity annually in the months of April/May. The "emergency lagoon inspection form" included in the application is to be completed and submitted along with the April/May sampling results.

Carl W. Baxter, P.E.
Administrator, Hazardous Waste Remediation Bureau
Waste Management Division

Under RSA 21-0:14 and 21-0:9-V, any person aggrieved by any terms or conditions of this permit may appeal to the Waste Management Council in accordance with RSA 541-A and NH Code of Administrative Rules Part Env-WMC 200. Such appeal must be made to the Council within 30 days and must be addressed to the Chairman, Waste Management Council, 6 Hazen Drive, P.O. Box 95, Concord, New Hampshire 03302-0095.

NEW HAMPSHIRE DEPARTMENT OF Environmental Services

The

NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES

hereby issues

GROUNDWATER RELEASE DETECTION PERMIT NO. GWP-900911-B-002

AS REVISED

to the permittee

CROWN PAPER COMPANY

for release detection monitoring at the

BURGESS MILL LAGOONS

in BERLIN, N.H.

via the groundwater monitoring system comprised of

4 monitoring wells and the emergency lagoon underdrain

as depicted on the Site Plan entitled

"Burgess Mill Lagoon - Interpreted Phreatic Surface"

dated May 12, 1997 prepared by Sevee & Maher Engineers, Inc.

TO: CROWN PAPER COMPANY
650 MAIN STREET
BERLIN, NEW HAMPSHIRE 03570

Date of Issuance: August 20, 1997
Date of Revision: March 26, 1999
Date of Expiration: August 19, 2002

Pursuant to authority in N.H. RSA 485-C:13, the New Hampshire Department of Environmental Services (Department), hereby grants this permit to monitor groundwater quality for five years at the above-described facility, subject to the following conditions:

(continued)

STANDARD RELEASE DETECTION CONDITIONS

1. The permittee shall not cause a "regulated contaminant", as defined in RSA 485-C, to be introduced to the ground or groundwater.

2. The permittee shall not cause groundwater degradation which results in a violation of surface water quality regulations (NH Code of Administrative Rules Part Env-Ws 430) in any surface water body.

3. The permittee shall allow any authorized staff of the Department, or its agent, to enter the property covered by this permit for the purpose of collecting information, examining records, collecting samples, or undertaking other action associated with this permit.

4. The permittee shall apply for the renewal of this permit 90 days prior to its expiration date.

5. This permit is transferable only upon written request to, and approval of, the Department. Compliance with the existing Permit shall be established prior to ownership transfer. Transfer requests shall include the name and address of the person to whom the permit transfer is requested, signature of the current permittee, and a summary of all monitoring results to date.

6. The Department reserves the right, under NH Code of Administrative Rules Part Env-Wm 1403, to require additional hydrogeologic studies and/or remedial measures if information indicating the need for such work is received.

7. The permittee shall maintain a water quality monitoring program and submit monitoring results to the Department's Groundwater Release Detection Permits Coordinator no later than 45 days after sampling. Samples shall be taken from the on-site monitoring wells and emergency lagoon underdrain as shown and labeled on the referenced site plan and listed in the following table in accordance with the schedule outlined herein:

Monitoring Locations	Sampling Frequency	Parameters
MW-1B, MW-2B, MW-3B, MW-4B, emergency lagoon underdrain	April/May & November of each year	specific conductance @ 25^0 C, pH, chloride, sulfate, TKN-N, COD
same as above	November 2000	VOCs (via EPA Method 8260B or current revision) Expanded List Metals

Samples shall be obtained using sampling procedures and protocol described in "Practical Guide for Ground-Water Sampling" and "RCRA Ground-Water Monitoring Enforcement Guidance" (U.S. EPA current editions). Samples shall be analyzed by a laboratory certified by U.S. EPA or the Department. All overburden groundwater samples collected for metals analyses shall be analyzed for dissolved metals and field-filtered (with a 0.45-micron filter) and acidified to a pH $\leq$ 2 at the time of collection. Surface water samples, samples collected from bedrock or water supply wells, and samples from the emergency lagoon underdrain shall be analyzed for total metals and shall not be filtered. As referred to herein, the term "Expanded List Metals" refers to: antimony, arsenic, barium, beryllium, cadmium, chromium, lead, mercury, selenium, thallium and silver. Summaries of water quality shall be submitted annually to the Department's Groundwater Release Detection Permits Coordinator, in the month of January using a format acceptable to the Department.

(continued)

8. Issuance of this permit is based on the Groundwater Release Detection Permit Application dated May 7, 1997 and historical file information found in DES file #900911. The Department may require additional hydrogeologic studies and/or remedial measures if invalid or inaccurate data are submitted.

ADDITIONAL CONDITIONS FOR WASTEWATER LAGOONS

9. The permittee shall notify the Department's Groundwater Release Detection Permits Coordinator (in writing) of any alteration to, or abandonment of, the lagoon system.

10. All grit, oil, sludge, or other wastes which result from the operation of the treatment system to be disposed of in New Hampshire shall be disposed of only in a facility approved by the Department for such disposal.

SPECIAL CONDITION FOR THIS PERMIT

11. The permittee shall conduct inspections of the emergency lagoon's liner for any damage compromising its integrity annually in the months of April/May. The "emergency lagoon inspection form" included in the application is to be completed and submitted along with the April/May sampling results.

Carl W. Baxter, P.E.
Administrator, Hazardous Waste Remediation Bureau
Waste Management Division

Under RSA 21-0:14 and 21-0:9-V, any person aggrieved by any terms or conditions of this permit may appeal to the Waste Management Council in accordance with RSA 541-A and NH Code of Administrative Rules Part Env-WMC 200. Such appeal must be made to the Council within 30 days and must be addressed to the Chairman, Waste Management Council, 6 Hazen Drive, P.O. Box 95, Concord, New Hampshire 03302-0095.

State of New Hampshire
DEPARTMENT OF ENVIRONMENTAL SERVICES
6 Hazen Drive, P.O. Box 95, Concord, NH 03302-0095
(603) 271-3644 FAX (603) 271-2181

March 24, 1999

Dr. Ray Danforth, Environmental Director
Crown Paper Company
650 Main Street
Berlin, New Hampshire 03570

Re: BERLIN - Burgess Mill Lagoons, Revised Groundwater Release Detection Permit (DES Site #199009011)

Dear Dr. Danforth:

Enclosed please find Groundwater Release Detection Permit #GWP-900911-B-002, issued by the Department of Environmental Services (Department). This permit is issued for a period of five years to monitor the groundwater quality at the Burgess Mill lagoons, and is a revision of your existing permit issued on August 20, 1997. As per your recent request, Condition #11 has been revised to delete the requirement to inspect the liner of the emergency lagoon no more than 30 days prior to each use; and now requires only one annual inspection in April/May of each year.

As with your existing permit, please continue to send all required sampling results and annual monitoring summaries to the Department's Groundwater Release Detection Permits Coordinator at the letterhead address, and include with all correspondence a cover letter with the Department's identification number for the site (i.e., DES #199009011).

Should you have any questions or require additional information, please contact me directly at the Department of Environmental Services at (603) 271-2999.

Sincerely,

Paul Ryder, P.G., Hydrogeologist
Waste Management Division

F:\GWUSERS\GWPLR\PERMITS\#900911R.PMT
enc: GWP-900911-B-002
cc: HWRB File (#199009011)

NHDES
DEPARTMENT OF ENVIRONMENTAL SERVICES
64 No. Main Street, P.O. Box 2008, Concord, NH 03302-2008
(603) 271-2457 · FAX (603) 271-7894

March 3, 1997

Raymond H. Danforth, Ph.D.
Environmental Director
Crown Vantage Paper Company
Berlin-Gorham Group
650 Main Street
Berlin, New Hampshire 03570-2489

CERTIFIED MAIL #P 163 945 621

Subject: State Surface Water Discharge Permit No. NH0000655

Dear Mr. Danforth:

The purpose of this letter is to inform you that the two NPDES permit modifications issued to Crown Vantage Paper Company (Crown) and signed by the U.S. Environmental Protection Agency (EPA) on September 22, 1995 (which included revised page 6, new page 6a and revised Part II dated September 1, 1993) and January 23, 1997 (which included revised pages 2,4,5,10,12,13 and 16) respectively, are also considered State Discharge Permit modifications adopted pursuant to RSA 485-A:13,I(a), Env-Ws 401 and Env-Ws 403.

Should you have any questions relative to your State discharge permit modifications, copies of which are enclosed, please call Jeff Andrews of my staff at 271-2984.

Sincerely,

George C. Berlandi, P.E.
Sanitary Engineer
Surface Water Quality Bureau

GCB/jga37

Enclosures

cc: Frederick B. Gay, EPA-Boston

Federal Permit No. NH0000655

FIRST MODIFICATION OF AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Clean Water Act, as amended, (33 U.S.C. §1251 et seq.; the "CWA"),

Crown Paper Company

is authorized to discharge from a facility located at

Berlin and Gorham, New Hampshire 03570

to receiving water named

Androscoggin River

in accordance with effluent limitations, monitoring requirements and other conditions set forth in the permit issued on June 10, 1992 except as set forth herein and listed as follows:

Revised Page 6
New Page 6a

For clarity, all unrevised pages of the permit are also included in the modification.

This permit action modifies the permit issued on June 10, 1992, which became effective on October 21, 1994, the date of execution of the Settlement Agreement due to resolution of the permittee's evidentiary hearing request.

This permit modification shall become effective immediately upon signature.

This permit and the authorization to discharge shall expire at midnight, October 21, 1999.

Signed this 22nd day of September, 1995

Ira Bull Actng

Director
Water Management Division
Environmental Protection Agency
New England - Boston, MA

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

4. During the period beginning on the effective date and lasting through the expiration date, the permittee is authorized to discharge from outfall serial numbers ~~010 – Burgess Filter House Backwash and~~ 017 - Cascade filter backwash and treated water overflow to the Androscoggin River. Such discharge shall be limited and monitored by the permittee as specified below:

Table A.4 Discharge Limitations for Outfalls 017						Monitoring	
Effluent Characteristic	Mass Limits		Concentration or Other Limits				
	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Frequency	Type
Flow	-	Report mgd	-	-	-	1/Month	Estimate
TSS	-	-	-	-	60 mg/l	1/Month	Grab
pH Range	The pH shall be maintained within the range of 6.5 to 8.0 standard units or as naturally occurs. See Part I.K.					1/Month	4 Grabs

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following locations: Representative points before the discharge from outfalls ~~010 and~~ 017 to the Androscoggin River.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

4a. During the period beginning on the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfall Number 010 - Burgess Filter House Backwash to which allowable[1] cationic polyelectrolytes have been added, and treated water overflow to the Androscoggin River. The discharge shall be limited and monitored by the permittee as specified below:

Table A.4.a Discharge Limitations for Outfalls 010						Monitoring	
Effluent Characteristic	Mass Limits		Concentration or Other Limits				
	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Frequency	Type
Flow	*8 mgd*	*10 mgd*	-	-	-	1/Month	Estimate
Iron , Total	*267 lb/day*	*400 lb/day*	-	*4.0 mg/l*	*6.0 mg/l*	*2/Month* [5]	*Grab* [4]
Color	-	-	-	*Report*	-	*2/Month* [5]	*Grab* [4]
TSS	-	-	-	-	60 mg/l	1/Month	Grab
Residual Free Cationic Polymer [2]			-	*0.5 mg/l*	*0.8 mg/l*	*2/Month* [5]	*Grab* [4]
Acute Whole Effluent Toxicity NOEC [3]			-	-	*≥80 % Effluent* [6]	*1/Quarter* [5]	*Grab* [4]
pH Range	Range 6.5 to 8.0 standard units or as naturally occurs. See Part I.K.					1/Month	Grab[4]

Comments for Table A.4.a: [1]Allowable cationic polyelectrolytes shall be only those demonstrated to meet or exceed the following acute aquatic toxicity criteria: NOEC ≥ 0.1 mg/l free residual polymer for the 48-hour static test using the fathead minnow (Pimephales promelas) test species in accordance with Methods for Measuring the Acute Toxicity of Effluents to Freshwater and Marine Organisms, Third Edition. Office of Research and Development, Cincinnati, OH. EPA/600/4-85/013. [2] As measured by BETZ Cationic Polymer QAC Test Method, BPR 3763-PS 8/93, or equivalent. [3] Using two test species, a daphnid (Ceriodaphnia dubia) and a fathead minnow (Pimephales promelas) in accord with Biomonitoring Protocols, EPA Region I - July 1, 1990. The chemical testing required by those protocols need not be conducted. [4]Four grabs within four hours. [5] When electrolytes are in use for at least 10 days during the quarter. [6]Effective 30 days after modification issuance. A limit of 90% Effluent is effective for the first 30 days after issuance.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following locations: Representative points before the discharge from outfalls 010 to the Androscoggin River.

Federal Permit No. NH0000655

SECOND MODIFICATION OF AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Clean Water Act, as amended, (33 U.S.C. §1251 et seq.; the "CWA"),

Crown Paper Company

is authorized to discharge from a facility located at

Berlin and Gorham, New Hampshire 03570

to receiving water named

Androscoggin River

in accordance with effluent limitations, monitoring requirements and other conditions set forth in the permit issued on June 10, 1992 except as set forth herein and listed as follows:

Revised Pages 2, 4, 5, 10, 12, 13 and 16 of 16

For clarity, all unrevised pages of the permit are also included in the modification.

This permit action modifies the permit issued on June 10, 1992, which became effective on October 21, 1994, the date of execution of the Settlement Agreement due to resolution of the permittee's evidentiary hearing request.

This permit modification shall become effective 30 days after signature.

This permit and the authorization to discharge shall expire at midnight, October 21, 1999.

Signed this 21st day of January, 1997

David Fierra

Director
Office of Ecosystem Protection
U.S. Environmental Protection Agency
New England - Boston, MA

C:\WPWIN60\DATA\CROWN\MOD-1.WPD

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

2. During the period beginning on the effective date and lasting through the expiration date, the permittee is authorized to discharge from outfall serial number 016 - discharge from the Burgess WWTP which consists of process wastewater from the Burgess Pulp Mill, leachate from the old Dummer Yard landfill, leachate from the new Mt. Carberry landfill which includes process wastes from the various Crown Paper Company mills and also municipal wastes from the surrounding communities, and stormwater from roof drains and yard areas in the vicinity of the Burgess Mill. Such discharge shall be limited and monitored by the permittee as specified below

Table A.2 Discharge Limitations for Outfall 016						Monitoring	
Effluent Characteristic	Mass Limits		Concentration or Other Limits				
	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Frequency	Type
Flow	Report mgd	Report mgd	-	-	-	Continuous	Record
pH Range	The pH shall be maintained within the range of 6.5 to 8.0 standard units or as naturally occurs. See Part I.K.1.a.					Continuous	Record
Total Phosphorus	-	Report lbs/day	-	-	Report mg/l	1/Quarter	24 Hour Composite
Ammonia	-	-	-	-	Report mg/l	1/Month	Grab
Total Residual Chlorine (1)	77 lbs/day	134 lbs/day	-	Report mg/l	Report mg/l	1/Day	Grab
AOX see Part I.A.8	Report kg/tonne	-	-	Report mg/l	-	1/Month	24 Hour Composite

(table continued on the next page)

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

3. During the period beginning on the effective date and lasting through the expiration date, the permittee is authorized to discharge from outfall serial number 018 - treated process wastewater and stormwater from roof drains and yard areas in the vicinity of the Cascade Mill in Gorham, NH to the Androscoggin River. Such discharges shall be limited and monitored by the permittee as specified below:

Table A.3 Discharge Limitations for Outfall 018						Monitoring	
Effluent Characteristic	Mass Limits		Concentration or Other Limits				
	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Frequency	Type
Flow	Report mgd	Report mgd	-	-	-	Continuous	Record
pH Range	The pH shall be maintained within the range of 6.5 to 8.0 standard units or as naturally occurs. See Part I.K.1.a.					Continuous	Record
Temperature	-	-	-	Report °F	Report °F	2/Month	Grab
Whole Effluent Toxicity (WET) See Part I.A.10.		-	-	-	Report % LC-50 and C-NOEC	1/Quarter	24 Hour Composite

Comments for Table I.A.3
None

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: discharge from the polishing pond.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

4a. During the period beginning on the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfall Number 010 - Burgess Filter House Backwash to which allowable[1] cationic polyelectrolytes have been added, and treated water overflow to the Androscoggin River. The discharge shall be limited and monitored by the permittee as specified below:

Table A.4.a Discharge Limitations for Outfalls 010						Monitoring	
Effluent Characteristic	Mass Limits		Concentration or Other Limits				
	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Frequency	Type
Flow	*8 mgd*	*10 mgd*	-	-	-	1/Month	Estimate
Iron , Total	*267 lb/day*	*400 lb/day*	-	*4.0 mg/l*	*6.0 mg/l*	*2/Month [5]*	*Grab [4]*
Color	-	-	-	*Report*	-	*2/Month [5]*	*Grab [4]*
TSS	-	-	-	-	60 mg/l	1/Month	Grab
Residual Free Cationic Polymer [2]			-	*0.5 mg/l*	*0.8 mg/l*	*2/Month [5]*	*Grab [4]*
Acute Whole Effluent Toxicity NOEC [3]			-	-	*≥80 % Effluent [6]*	*1/Quarter [5]*	*Grab [4]*
pH Range	Range 6.5 to 8.0 standard units or as naturally occurs. See Part I.K.					1/Month	Grab[4]

Comments for Table A.4.a: *[1]Allowable cationic polyelectrolytes shall be only those demonstrated to meet or exceed the following acute aquatic toxicity criteria: NOEC ≥ 0.1 mg/l free residual polymer for the 48-hour static test using the fathead minnow (Pimephales promelas) test species in accordance with Methods for Measuring the Acute Toxicity of Effluents to Freshwater and Marine Organisms, Third Edition, Office of Research and Development, Cincinnati, OH, EPA/600/4-85/013. [2] As measured by BETZ Cationic Polymer QAC Test Method, BPR 3763-PS 8/93, or equivalent. [3] Using two test species, a daphnid (Ceriodaphnia dubia) and a fathead minnow (Pimephales promelas) in accord with Biomonitoring Protocols, EPA Region I - July 1, 1990. The chemical testing required by those protocols need not be conducted. [4]Four grabs within four hours. [5] When electrolytes are in use for at least 10 days during the quarter. [6]Effective 30 days after modification issuance. A limit of 90% Effluent is effective for the first 30 days after issuance.*

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following locations: Representative points before the discharge from outfalls 010 to the Androscoggin River.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

6. During the period beginning on the effective date and lasting through the expiration date, the permittee is authorized to discharge from outfall serial numbers 019, 020, 021, 022, 023 and 024 - non-contact hydro cooling waters from the Sawmill, Riverside, Crosspower, Cascade,Gorham and Shelburne Hydro Facilities to the Androscoggin River. Each discharge shall be limited and monitored by the permittee as specified below:

Table A.6 Discharge Limitations for Outfalls 019, 020, 021, 022, 023 and 024.						Monitoring	
Effluent Characteristic	Mass Limits		Concentration or Other Limits				
	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Frequency	Type
Flow	-	-	-	-	-	None	N/A
Temperature	-	-	-	-	-	None	N/A
pH Range	The pH range shall be maintained within the range of 6.5 to 8.0 standard units or as naturally occurs. See Part I.K.1.a.					None	N/A

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following locations: Representative points before the discharge from outfalls 019, 020. 021. 022, 023 and 024 to the Androscoggin River.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

9. 2378-TCDD and 2378-TCDF

Effluent 2378-TCDD (2,3,7,8-tetrachlorodibenzo-p-dioxin) and 2378-TCDF (2,3,7,8-tetrachlorodibenzofuran) are to be measured using EPA Method 1613: Tetra-through Octa-Chlorinated Dioxins and Furans by Isotope Dilution HRGC/HRMS, Revision A, dated October 1990, or other analytical protocol determined by EPA to be equivalent under 40 CFR 122.41(j)(4). NCASI Method 551 is considered to be an equivalent protocol.

The level at which compliance/noncompliance determinations will be made shall be the Minimum Level (ML) of detection. The ML is defined as the level at which the analytical system gives acceptable selected ion current profiles (SICP) and calibration. The ML acceptable for analysis for 2378-TCDD and 2378-TCDF is specified herein to be 10 pg/l (ppq) in aqueous samples. The designated ML of 10 ppq can be neither lowered nor raised without a major modification of this permit.

A non-detect result or a reported value for TCDD below the ML of 10 ppq shall be considered as compliance with the permit limits. A non-detect result at a level higher than the ML specified above shall not be considered as an acceptable analytical result. A minimum of two acceptable analytical results must be submitted for each calendar quarter. A minimum of 21 days shall be maintained between samples.

All analytical concentration *detection* results shall be reported including results which are below the minimum level of detection of 10 ppq. ***Non-detection concentration results shall be reported in the DMR as "Not Detected" for mass and for concentration. Detected concentration results below the minimum level of detection shall be reported in the DMR as "Detected Below The Minimum Level" for concentration and as "Below Quantification" for mass. Reporting "Below Quantification" shall be deemed in compliance with the permit. Detected concentration results at or above the minimum level of detection shall be reported in the DMR at that level for concentration and shall be calculated and reported in the DMR for mass using the actual average flow rate during the sampling period.***

10. Whole Effluent Toxicity

Burgess Effluent: Acute W.E.T. (Whole Effluent Toxicity) testing shall be conducted once per year during the third quarter using two species, a daphnid (Ceriodaphnia dubia) and fathead minnow (Pimephales promelas). The % LC_{50} results of the acute test for each species is to be reported in the DMR for October each year. The required test protocols are specified by Attachment C of Biomonitoring Protocols, EPA Region I, July 1, 1990. Testing may be conducted on-site or off-site.

C. ~~EVALUATION OF OUTFALL 013 TEMPERATURE IMPACT~~

~~The permittee shall conduct an evaluation of the acute temperature impacts of the hot water overflow, Outfall 013, on the receiving water. A report describing the evaluation or recommended changes to the discharge shall be submitted to EPA, NH DES and NH Fish and Game Department within one year of the effective date of the permit.~~
November 7, 1996 Outfall has been deleted.

D. CONDITIONS IN THE EVENT OF TEMPORARY FAILURE OF THE OXYGEN INJECTION SYSTEM AT GULF ISLAND POND

During the July 1 to September 30 term, failure to inject 73,000 pounds of oxygen to GIP at river mile 31.4 during any 24 hour period as measured from 8:00 am to 8:00 am shall constitute a permit violation. Such a failure of the oxygen injection system shall be reported orally to EPA and the ME DEP immediately and in writing within five days.

Either individually or in combination with Boise Cascade and International Paper and Central Maine Power, James River (now Crown Paper Company) shall submit a plan to EPA and the ME DEP which provides for measures to minimize the potential for malfunction of the oxygen injection system. The plan shall also include measures for rapid detection and notification of malfunctions in the oxygen injection system and a contingency plan that outlines emergency measures to be implemented to ensure the system is fully operational within a 24 hour period of time in the event of a mechanical breakdown or malfunction.

E. EVALUATION OF ALTERNATIVE HYDROELECTRIC WITHDRAWAL SITES AND OPERATING PROCEDURES AT GULF ISLAND POND DAM

Deleted

H. NOTIFICATIONS (continued)

2. That any activity has occurred or will occur which would result in the discharge, on a non-routine or infrequent basis, of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"

(a) Five hundred micrograms per liter (500 ug/l);
(b) One milligram per liter (1 mg/l) for antimony;
(c) Ten (10) times the maximum concentration value reported for that pollutant in the permit application in accordance with 40 CFR§122.21(g)(7); or
(d) Any other notification level established by the Director in accordance with 40 CFR§122.44(f).

3. That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant which was not reported in the permit application.

I. BEST MANAGEMENT PRACTICES

The permittee will continue to undertake its own program to 1) reduce, to the maximum extent practical, the formation of 2378-TCDD and 2378-TCDF in pulping and bleaching operations through process changes and process modifications; and 2) to reduce the discharge of 2378-TCDD and 2378-TCDF through changes in wastewater treatment system operations. Within 180 days of the effective date of this permit and continuing every 12 months thereafter through the life of the permit, the permittee shall submit to EPA and to NH DES a report describing the status of the above program.

K. STATE PERMIT CONDITIONS (continued)

(b) Within 180 days from the effective date of the permit, the permittee shall submit a request for a permit modification to EPA for any currently unpermitted outfalls including the compressor building, the filtered water overflow pipe(s), the Burgess lift station overflow pipe, the Cascade lift station overflow pipe and the pipe from which 500 pounds of hardwood pulp from the bleachery was reportedly discharged on September 13, 1991. If the permittee chooses to permanently seal any of the outfalls, written notification shall be provided to the Director of the Water ~~Supply and Pollution Control~~ Division of DES at the address listed in Part I.J of this permit.

2. This NPDES Discharge Permit is issued by the U.S. Environmental Protection Agency under Federal and State law. Upon final issuance by the federal EPA, the New Hampshire Water Supply and Pollution Control Division may adopt this Permit, including all terms and conditions, as a state discharge permit pursuant to RSA 485-A:13.
Each Agency shall have the independent right to enforce the terms and conditions of this Permit. Any modification, suspension or revocation of this Permit shall be effective only with respect to the Agency taking such action, and shall not affect the validity or status of this Permit as issued by the other Agency, unless and until each Agency has concurred in writing with such modification, suspension or revocation.

L. REOPENER

This permit may be reopened to establish alternate effluent limitations for 2378-TCDD if additional information such as a new wasteload allocation becomes available or if either affected state adopts an alternate water quality standard. Modification of the permit is subject to the provisions of 40 CFR 122.62.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

4. During the period beginning on the effective date and lasting through the expiration date, the permittee is authorized to discharge from outfall serial numbers ~~010 – Burgess Filter House Backwash and~~ 017 - Cascade filter backwash and treated water overflow to the Androscoggin River. Such discharge shall be limited and monitored by the permittee as specified below:

Table A.4 Discharge Limitations for Outfalls 017						Monitoring	
Effluent Characteristic	Mass Limits		Concentration or Other Limits				
	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Frequency	Type
Flow	-	Report mgd	-	-	-	1/Month	Estimate
TSS	-	-	-	-	60 mg/l	1/Month	Grab
pH Range	The pH shall be maintained within the range of 6.5 to 8.0 standard units or as naturally occurs. See Part I.K.					1/Month	4 Grabs

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following locations: Representative points before the discharge from outfalls ~~010 and~~ 017 to the Androscoggin River.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

4a. During the period beginning on the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfall Number 010 - Burgess Filter House Backwash to which allowable[1] cationic polyelectrolytes have been added, and treated water overflow to the Androscoggin River. The discharge shall be limited and monitored by the permittee as specified below:

Table A.4.a Discharge Limitations for Outfalls 010						Monitoring	
Effluent Characteristic	Mass Limits		Concentration or Other Limits				
	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Frequency	Type
Flow	*8 mgd*	*10 mgd*	-	-	-	1/Month	Estimate
Iron , Total	*267 lb/day*	*400 lb/day*	-	*4.0 mg/l*	*6.0 mg/l*	*2/Month [5]*	*Grab [4]*
Color	-	-	-	*Report*	-	*2/Month [5]*	*Grab [4]*
TSS	-	-	-	-	60 mg/l	1/Month	Grab
Residual Free Cationic Polymer [2]			-	*0.5 mg/l*	*0.8 mg/l*	*2/Month [5]*	*Grab [4]*
Acute Whole Effluent Toxicity NOEC[3]			-	-	*≥80 % Effluent [6]*	*1/Quarter [5]*	*Grab [4]*
pH Range	Range 6.5 to 8.0 standard units or as naturally occurs. See Part I.K.					1/Month	Grab[4]

Comments for Table A.4.a: *[1]Allowable cationic polyelectrolytes shall be only those demonstrated to meet or exceed the following acute aquatic toxicity criteria: NOEC ≥ 0.1 mg/l free residual polymer for the 48-hour static test using the fathead minnow (Pimephales promelas) test species in accordance with Methods for Measuring the Acute Toxicity of Effluents to Freshwater and Marine Organisms, Third Edition. Office of Research and Development, Cincinnati, OH. EPA/600/4-85/013. [2] As measured by BETZ Cationic Polymer QAC Test Method, BPR 3763-PS 8/93, or equivalent. [3] Using two test species, a daphnid (Ceriodaphnia dubia) and a fathead minnow (Pimephales promelas) in accord with Biomonitoring Protocols, EPA Region I - July 1, 1990. The chemical testing required by those protocols need not be conducted. [4]Four grabs within four hours. [5] When electrolytes are in use for at least 10 days during the quarter. [6]Effective 30 days after modification issuance. A limit of 90% Effluent is effective for the first 30 days after issuance.*

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following locations: Representative points before the discharge from outfalls 010 to the Androscoggin River.

Federal Permit No. NH0000655

SECOND MODIFICATION OF AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Clean Water Act, as amended, (33 U.S.C. §1251 et seq.; the "CWA"),

Crown Paper Company

is authorized to discharge from a facility located at

Berlin and Gorham, New Hampshire 03570

to receiving water named

Androscoggin River

in accordance with effluent limitations, monitoring requirements and other conditions set forth in the permit issued on June 10, 1992 except as set forth herein and listed as follows:

Revised Pages 2, 4, 5, 10, 12, 13 and 16 of 16

For clarity, all unrevised pages of the permit are also included in the modification.

This permit action modifies the permit issued on June 10, 1992, which became effective on October 21, 1994, the date of execution of the Settlement Agreement due to resolution of the permittee's evidentiary hearing request.

This permit modification shall become effective 30 days after signature.

This permit and the authorization to discharge shall expire at midnight, October 21, 1999.

Signed this 21st day of January, 1997

David Fierra

Director
Office of Ecosystem Protection
U.S. Environmental Protection Agency
New England - Boston, MA

C:\WPWIN60\DATA\CROWN\MOD-1.WPD

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning on the effective date and lasting through the expiration date, the permittee is authorized to discharge from outfall serial number 016 - effluent from the Burgess WWTP in Berlin, NH and from outfall serial number 018 - treated process wastewater from the Cascade Paper Mill in Gorham, NH to the Androscoggin River. The combination of such discharges shall be limited and monitored by the permittee as specified below:

Table A.1 Limitations for the Combination of Outfalls 016 and 018						Monitoring	
Effluent Characteristic	Mass Limits		Concentration or Other Limits				
	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Frequency	Type
BOD July 1 to Sept 30	13,400 lbs/day	25,600 lbs/day	-	Report mg/l	Report mg/l	1/Day	24 Hour Composite
BOD Oct 1 to June 30	***14,000*** lbs/day	27,000 lbs/day	-	Report mg/l	Report mg/l	1/Day	24 hour Composite
TSS	28,000 lbs/day	52,200 lbs/day	-	Report mg/l	Report mg/l	1/Day	24 hour Composite
Oxygen Injected at GIP RM 31.4	-	-	***73,000 lbs/day (1)***	***Report lbs/day***	***Report lbs/day***	***1/Day***	***24 Hour Total Injection***

Comments for Table A.1
(1) Applicable only during the period July 1 to September 30 each year. See Part I.D.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

2. During the period beginning on the effective date and lasting through the expiration date, the permittee is authorized to discharge from outfall serial number 016 - discharge from the Burgess WWTP which consists of process wastewater from the Burgess Pulp Mill, leachate from the old Dummer Yard landfill, leachate from the new Mt. Carberry landfill which includes process wastes from the various Crown Paper Company mills and also municipal wastes from the surrounding communities, and stormwater from roof drains and yard areas in the vicinity of the Burgess Mill. Such discharge shall be limited and monitored by the permittee as specified below

Table A.2 Discharge Limitations for Outfall 016						Monitoring	
Effluent Characteristic	Mass Limits		Concentration or Other Limits				
	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Frequency	Type
Flow	Report mgd	Report mgd	-	-	-	Continuous	Record
pH Range	The pH shall be maintained within the range of 6.5 to 8.0 standard units or as naturally occurs. See Part I.K.1.a.					Continuous	Record
Total Phos-phorus	-	Report lbs/day	-	-	Report mg/l	1/Quarter	24 Hour Composite
Ammonia	-	-	-	-	Report mg/l	1/Month	Grab
Total Resi-dual Chlor-ine (1)	77 lbs/day	134 lbs/day	-	Report mg/l	Report mg/l	1/Day	Grab
AOX see Part I.A.8	Report kg/tonne	-	-	Report mg/l	-	1/Month	24 Hour Composite

(table continued on the next page)

A.2 EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

Table A.2 (continued) Discharge Limitations for Outfall 016						Monitoring	
Effluent Characteristic	Mass Limits		Concentration or Other Limits				
	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Frequency	Type
~~2378-TCDD (2)~~	-	~~*1.6 mg/day*~~	-	-	~~*20 ppq*~~	~~2/Quarter~~	~~72 Hour Composite~~
2378-TCDD (3)	-	108 ug/day	-	-	Report ppq	2/Quarter	72 Hour Composite
2378-TCDF see I.A.9	-	Report ug/day	-	-	Report ppq	2/Quarter	72 Hour Composite
Temperature	-	-	-	Report °F	Report °F	2/Month	Grab
WET (Whole Effluent Toxicity). See Part I.A.10		-	-	-	Report % LC_{50}	1/Year 3rd Qtr	24 Hour Composite

Comments for Table A.2

(1) Total Residual Chlorine (TRC) monitoring is required only during periods when chlorine is in use at the Burgess wastewater treatment facility for biological growth control.

(2) ~~Upon issuance and lasting until *June 10, 1995.* See Part I.A.9.~~

(3) Beginning ~~*June 10, 1995.*~~ See Part I.A.9.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following locations: representative location after the final clarifier. ***Alternatively, the permittee may monitor 2378-TCDD and 2378-TCDF for compliance at the end of the bleach plant.***

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

3. During the period beginning on the effective date and lasting through the expiration date, the permittee is authorized to discharge from outfall serial number 018 - treated process wastewater and stormwater from roof drains and yard areas in the vicinity of the Cascade Mill in Gorham, NH to the Androscoggin River. Such discharges shall be limited and monitored by the permittee as specified below:

Table A.3 Discharge Limitations for Outfall 018						Monitoring	
Effluent Characteristic	Mass Limits		Concentration or Other Limits				
	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Frequency	Type
Flow	Report mgd	Report mgd	-	-	-	Continuous	Record
pH Range	The pH shall be maintained within the range of 6.5 to 8.0 standard units or as naturally occurs. See Part I.K.1.a.					Continuous	Record
Temperature	-	-	-	Report °F	Report °F	2/Month	Grab
Whole Effluent Toxicity (WET) See Part I.A.10.		-	-	-	Report % LC-50 and C-NOEC	1/Quarter	24 Hour Composite

Comments for Table I.A.3
None

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: discharge from the polishing pond.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

4. During the period beginning on the effective date and lasting through the expiration date, the permittee is authorized to discharge from outfall serial numbers 010 - Burgess Filter House Backwash when no chemicals are added and 017 - Cascade filter backwash and treated water overflow to the Androscoggin River. Such discharge shall be limited and monitored by the permittee as specified below:

Table A.4 Discharge Limitations for Outfalls 017						Monitoring	
Effluent Characteristic	Mass Limits		Concentration or Other Limits				
	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Frequency	Type
Flow	-	Report mgd	-	-	-	1/Month	Estimate
TSS	-	-	-	-	60 mg/l	1/Month	Grab
pH Range	The pH shall be maintained within the range of 6.5 to 8.0 standard units or as naturally occurs. See Part I.K.					1/Month	4 Grabs

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following locations: Representative points before the discharge from outfalls 010 and 017 to the Androscoggin River.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

4a. During the period beginning on the effective date and lasting through the expiration date, the permittee is authorized to discharge from Outfall Number 010 - Burgess Filter House Backwash to which allowable[1] cationic polyelectrolytes have been added, and treated water overflow to the Androscoggin River. The discharge shall be limited and monitored by the permittee as specified below:

Table A.4.a Discharge Limitations for Outfalls 010						Monitoring	
Effluent Characteristic	Mass Limits		Concentration or Other Limits				
	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Frequency	Type
Flow	*8 mgd*	*10 mgd*	-	-	-	1/Month	Estimate
Iron , Total	*267 lb/day*	*400 lb/day*	-	*4.0 mg/l*	*6.0 mg/l*	*2/Month [5]*	*Grab [4]*
Color	-	-	-	*Report*	-	*2/Month [5]*	*Grab [4]*
TSS	-	-	-	-	60 mg/l	1/Month	Grab
Residual Free Cationic Polymer [3]			-	*0.5 mg/l*	*0.8 mg/l*	*2/Month [5]*	*Grab [4]*
Acute Whole Effluent Toxicity NOEC [3]			-	-	*≥80 % Effluent [6]*	*1/Quarter [5]*	*Grab [4]*
pH Range	Range 6.5 to 8.0 standard units or as naturally occurs. See Part I.K.					1/Month	Grab[4]

Comments for Table A.4.a: *[1]Allowable cationic polyelectrolytes shall be only those demonstrated to meet or exceed the following acute aquatic toxicity criteria: NOEC ≥ 0.1 mg/l free residual polymer for the 48-hour static test using the fathead minnow (Pimephales promelas) test species in accordance with Methods for Measuring the Acute Toxicity of Effluents to Freshwater and Marine Organisms, Third Edition, Office of Research and Development, Cincinnati, OH, EPA/600/4-85/013. [3] As measured by BETZ Cationic Polymer QAC Test Method, BPR 3763-PS 8/93, or equivalent. [5] Using two test species, a daphnid (Ceriodaphnia dubia) and a fathead minnow (Pimephales promelas) in accord with Biomonitoring Protocols, EPA Region I - July 1, 1990. The chemical testing required by those protocols need not be conducted. [4]Four grabs within four hours. [5] When electrolytes are in use for at least 10 days during the quarter. [6]Effective 30 days after modification issuance. A limit of 90% Effluent is effective for the first 30 days after issuance.*

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following locations: Representative points before the discharge from outfalls 010 to the Androscoggin River.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

5. During the period beginning on the effective date and lasting through the expiration date, the permittee is authorized to discharge from outfall serial numbers 001, 003, 005/006 (single outfall), 009. 011, 014, and 015 - non-contact cooling water ~~and 013 - hot water overflow from the Burgess Mill~~ to the Androscoggin River. Each discharge shall be limited and monitored by the permittee as specified below:

Table A.5 Discharge Limitations for Outfalls 001, 003, 005/006, 009, 011, 014 and 015.						Monitoring	
Effluent Characteristic	Mass Limits		Concentration or Other Limits				
	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Frequency	Type
Flow	Report mgd	Report mgd	-	-	-	1/Month	Estimate
Temperature	-	-	-	Report °F	Report °F	1/Month	Estimate
pH Range	The pH range shall be maintained within the range of 6.5 to 8.0 standard units or as naturally occurs. See Part I.K.1.a.					1/Month	4 Grabs

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following locations: Representative points before the discharges from outfalls 001, 003, 005, 006, 009, 011, ~~013~~, 014, and 015 to the Androscoggin River.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

6. During the period beginning on the effective date and lasting through the expiration date, the permittee is authorized to discharge from outfall serial numbers 019, 020, 021, 022, 023 and 024 - non-contact hydro cooling waters from the Sawmill, Riverside, Crosspower, Cascade,Gorham and Shelburne Hydro Facilities to the Androscoggin River. Each discharge shall be limited and monitored by the permittee as specified below:

Table A.6 Discharge Limitations for Outfalls 019, 020, 021, 022, 023 and 024.						Monitoring	
Effluent Characteristic	Mass Limits		Concentration or Other Limits				
	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Frequency	Type
Flow	-	-	-	-	-	None	N/A
Temperature	-	-	-	-	-	None	N/A
pH Range	The pH range shall be maintained within the range of 6.5 to 8.0 standard units or as naturally occurs. See Part I.K.1.a.					None	N/A

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following locations: Representative points before the discharge from outfalls 019, 020. 021. 022, 023 and 024 to the Androscoggin River.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

7. All Outfalls

Each effluent identified in Parts I.A.2 through I.A.6 shall also meet the following requirements:

(a) There shall be no discharge of floating solids or visible foam in other than trace amounts.

(b) Each effluent shall not contain materials in concentrations or combinations which are hazardous or toxic to aquatic life; or which would impair the usages designated by the classification of the receiving waters.

(c) Each effluent shall not impact color, turbidity, toxicity, radioactivity or other properties which would cause those waters to be unsuitable for the designated uses and characteristics ascribed to their class.

(d) Notwithstanding specific conditions of the permit, the effluent must not lower the quality of any classified body of water below such classification.

(e) The permittee shall not use chlorophenolic-containing biocides.

8. Adsorbable Organic Halogens Monitoring

The analytical method to be used to measure adsorbable organic halogens (AOX) shall be the SCAN-W 9:89 protocol described by the Scandinavian Pulp, Paper, and Board Testing Committee, ISO/DIS Method 9562, or an equivalent method acceptable to EPA. Both the suspended and dissolved fractions of the wastewater shall be included in the analysis. Two monthly values are to be reported, 1) the average analytical concentration and 2) the average monthly mass discharge in kilograms per tonne (metric ton) of bleached stock production. The latter would be calculated using the average AOX concentration found, the average daily flow for the calendar month and the average daily bleached stock production for the calendar month.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

9. 2378-TCDD and 2378-TCDF

Effluent 2378-TCDD (2,3,7,8-tetrachlorodibenzo-p-dioxin) and 2378-TCDF (2,3,7,8-tetrachlorodibenzofuran) are to be measured using EPA Method 1613: Tetra-through Octa-Chlorinated Dioxins and Furans by Isotope Dilution HRGC/HRMS, Revision A, dated October 1990, or other analytical protocol determined by EPA to be equivalent under 40 CFR 122.41(j)(4). NCASI Method 551 is considered to be an equivalent protocol.

The level at which compliance/noncompliance determinations will be made shall be the Minimum Level (ML) of detection. The ML is defined as the level at which the analytical system gives acceptable selected ion current profiles (SICP) and calibration. The ML acceptable for analysis for 2378-TCDD and 2378-TCDF is specified herein to be 10 pg/l (ppq) in aqueous samples. The designated ML of 10 ppq can be neither lowered nor raised without a major modification of this permit.

A non-detect result or a reported value for TCDD below the ML of 10 ppq shall be considered as compliance with the permit limits. A non-detect result at a level higher than the ML specified above shall not be considered as an acceptable analytical result. A minimum of two acceptable analytical results must be submitted for each calendar quarter. A minimum of 21 days shall be maintained between samples.

All analytical concentration *detection* results shall be reported including results which are below the minimum level of detection of 10 ppq. ***Non-detection concentration results shall be reported in the DMR as "Not Detected" for mass and for concentration. Detected concentration results below the minimum level of detection shall be reported in the DMR as "Detected Below The Minimum Level" for concentration and as "Below Quantification" for mass. Reporting "Below Quantification" shall be deemed in compliance with the permit. Detected concentration results at or above the minimum level of detection shall be reported in the DMR at that level for concentration and shall be calculated and reported in the DMR for mass using the actual average flow rate during the sampling period.***

10. Whole Effluent Toxicity

Burgess Effluent: Acute W.E.T. (Whole Effluent Toxicity) testing shall be conducted once per year during the third quarter using two species, a daphnid (Ceriodaphnia dubia) and fathead minnow (Pimephales promelas). The % LC_{50} results of the acute test for each species is to be reported in the DMR for October each year. The required test protocols are specified by Attachment C of Biomonitoring Protocols, EPA Region I, July 1, 1990. Testing may be conducted on-site or off-site.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

10. Whole Effluent Toxicity (continued)

Cascade Effluent: Acute and chronic W.E.T. toxicity testing shall be conducted once each quarter using two species, a daphnid (Ceriodaphnia dubia) and a fathead minnow (Pimephales promelas). The quarterly acute % LC_{50} and the chronic % C-NOEC results for each species are to be reported in the DMRs for April, July, October and January each year, respectively. The required test protocols are specified by Attachment C of Biomonitoring Protocols, EPA Region I, July 1, 1990. Testing may be conducted on-site or off-site. Acute test results are allowed based upon the initial (48-hour) results of the chronic test.

B. RESIDENT FISH MONITORING

Each year, the permittee shall conduct a resident fish dioxin monitoring survey in accordance with plan approved by the NH DES prior to onset of the sampling. The plan would generally consist of a May to June sampling of representative fish of the type (trout and hornpout) and size which typically would be caught and consumed by fisherman. Generally, the analysis would include 2378-TCDD, 2378-TCDF and lipid content of representative edible portions of the fish (fillets with the skin on or as directed by the state). Consideration should be given to the tissue extraction and analytical procedures being applied for the Maine DEP dioxin/fish tissue survey. Copies of the results of the annual surveys are to be sent by Crown Paper Company to the NH DES/Water Division (WD), NH DPHS, NH Fish and Game Department, and to the Maine DEP. The results of the annual survey shall be submitted to EPA with the December DMR.

This survey requirement may be discontinued upon written approval of NH DES and notification to the Region I WCB.

C. ~~EVALUATION OF OUTFALL 013 TEMPERATURE IMPACT~~

~~The permittee shall conduct an evaluation of the acute temperature impacts of the hot water overflow, Outfall 013, on the receiving water. A report describing the evaluation or recommended changes to the discharge shall be submitted to EPA, NH DES and NH Fish and Game Department within one year of the effective date of the permit.~~
November 7, 1996 Outfall has been deleted.

D. CONDITIONS IN THE EVENT OF TEMPORARY FAILURE OF THE OXYGEN INJECTION SYSTEM AT GULF ISLAND POND

During the July 1 to September 30 term, failure to inject 73,000 pounds of oxygen to GIP at river mile 31.4 during any 24 hour period as measured from 8:00 am to 8:00 am shall constitute a permit violation. Such a failure of the oxygen injection system shall be reported orally to EPA and the ME DEP immediately and in writing within five days.

Either individually or in combination with Boise Cascade and International Paper and Central Maine Power, James River (now Crown Paper Company) shall submit a plan to EPA and the ME DEP which provides for measures to minimize the potential for malfunction of the oxygen injection system. The plan shall also include measures for rapid detection and notification of malfunctions in the oxygen injection system and a contingency plan that outlines emergency measures to be implemented to ensure the system is fully operational within a 24 hour period of time in the event of a mechanical breakdown or malfunction.

E. EVALUATION OF ALTERNATIVE HYDROELECTRIC WITHDRAWAL SITES AND OPERATING PROCEDURES AT GULF ISLAND POND DAM

Deleted

F. EVALUATION OF SEDIMENT REMOVAL FROM GULF ISLAND POND

Deleted

G. EVALUATION OF IN-PLANT PROCESS/ TREATMENT SYSTEM CHANGES FOR EFFLUENT BOD REDUCTION

Deleted

H. NOTIFICATIONS

All existing manufacturing, commercial, mining, and silvicultural dischargers must notify the Director as soon as they know or have reason to believe:

1. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in the permit, if the discharge will exceed the highest of the following "notification levels:"

(a) One hundred micrograms per liter (100 ug/l);
(b) Two hundred micrograms per liter (200 ug/l) for acrolein and acrylonitrile: five hundred micrograms per liter (500 ug/l) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitro- phenol; and one milligram per liter(1 mg/l) for antimony;
(c) Five (5) times the maximum concentration value reported for that pollutant in the permit application in accordance with 40 CFR§122.21(g)(7); or
(d) Any other notification level established by the Director in accordance with 40 CFR§122.44(f).

H. NOTIFICATIONS (continued)

2. That any activity has occurred or will occur which would result in the discharge, on a non-routine or infrequent basis, of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"

(a) Five hundred micrograms per liter (500 ug/l);
(b) One milligram per liter (1 mg/l) for antimony;
(c) Ten (10) times the maximum concentration value reported for that pollutant in the permit application in accordance with 40 CFR§122.21(g)(7); or
(d) Any other notification level established by the Director in accordance with 40 CFR§122.44(f).

3. That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant which was not reported in the permit application.

I. BEST MANAGEMENT PRACTICES

The permittee will continue to undertake its own program to 1) reduce, to the maximum extent practical, the formation of 2378-TCDD and 2378-TCDF in pulping and bleaching operations through process changes and process modifications; and 2) to reduce the discharge of 2378-TCDD and 2378-TCDF through changes in wastewater treatment system operations. Within 180 days of the effective date of this permit and continuing every 12 months thereafter through the life of the permit, the permittee shall submit to EPA and to NH DES a report describing the status of the above program.

J. REPORTING

Monitoring results obtained during the previous month shall be summarized for each month and reported on separate Discharge Monitoring Report Forms provided by EPA and postmarked no later than the 15th day of the month following the completed reporting period. The first report is due on the 15th day of the month following the effective date of the permit.

The quarterly 2378-TCDD and 2378-TCDF results are to be reported in the April, July, October, and January DMRs respectively.

Duplicate signed copies of theses and all other reports required herein, shall be submitted to the Director and the State at the following addresses:

U.S. Environmental Protection Agency
Planning and Administration (SPA)
P.O. Box 8127
Boston, MA 02114

New Hampshire Department of Environmental Services
Water Division
Surface Water Quality Bureau
Hazen Drive, P.O. Box 95
Concord, NH 03302-0095

K. STATE PERMIT CONDITIONS

1. The permittee shall comply with the following conditions which are included as State Certification requirements:

(a) The pH for Class B waters is 6.5-8.0 S.U. or as naturally occurs in the receiving water. The 6.5-8.0 S.U. range must be achieved in the final effluent unless the permittee can demonstrate to the NH DES 1) that the range should be widened due to naturally occurring conditions in the receiving water or 2) that the naturally occurring source water pH is unaltered by the permittee's operations. The scope of any demonstration project must receive prior approval from the NH DES. In no case shall the above procedure result in pH limits less restrictive than any applicable federal effluent limitation guideline.

K. STATE PERMIT CONDITIONS (continued)

(b) Within 180 days from the effective date of the permit, the permittee shall submit a request for a permit modification to EPA for any currently unpermitted outfalls including the compressor building, the filtered water overflow pipe(s), the Burgess lift station overflow pipe, the Cascade lift station overflow pipe and the pipe from which 500 pounds of hardwood pulp from the bleachery was reportedly discharged on September 13, 1991. If the permittee chooses to permanently seal any of the outfalls, written notification shall be provided to the Director of the Water ~~Supply and Pollution Control~~ Division of DES at the address listed in Part I.J of this permit.

2. This NPDES Discharge Permit is issued by the U.S. Environmental Protection Agency under Federal and State law. Upon final issuance by the federal EPA, the New Hampshire Water Supply and Pollution Control Division may adopt this Permit, including all terms and conditions, as a state discharge permit pursuant to RSA 485-A:13.
Each Agency shall have the independent right to enforce the terms and conditions of this Permit. Any modification, suspension or revocation of this Permit shall be effective only with respect to the Agency taking such action, and shall not affect the validity or status of this Permit as issued by the other Agency, unless and until each Agency has concurred in writing with such modification, suspension or revocation.

L. REOPENER

This permit may be reopened to establish alternate effluent limitations for 2378-TCDD if additional information such as a new wasteload allocation becomes available or if either affected state adopts an alternate water quality standard. Modification of the permit is subject to the provisions of 40 CFR 122.62.

SME

Sevee & Maher Engineers, Inc.
Waste Management and Hydrogeologic Consultants

June 8, 2000

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Department of Environmental Services
Water Supply & Pollution Control Div.
Attn: Karlee Kenison
6 Hazen Drive
P.O. Box 95
Concord, NH 03302-0095

Subject: Pulp & Paper of America, Berlin, New Hampshire,
Water Quality Data Submittal for Dummer Yard Landfill –
April 2000 DES #870435

Dear Ms. Kenison:

Enclosed please find a copy of the analytical results for the April 2000 sampling event at Pulp & Paper of America's (PPA) Dummer Yard Landfill in Berlin, New Hampshire. The analytical data is presented in two formats: (1) the field sampling sheets, chain-of-custodies, and analytical laboratory reports for the April 2000 event; and (2) a historical water quality summary table by chemical parameter derived from PPA's monitoring program database. The April 2000 water quality data presented in the enclosed tables are final and accurate. The following observations were made based upon Sevee & Maher Engineers, Inc.'s (SME) review of the April 2000 water quality data.

1. During the April 2000 sampling round, SME and PPA personnel collected samples from nine monitoring wells and three surface water locations (Figure 1).

2. The samples from the monitoring wells were collected after purging three well volumes or until the well was pumped nearly dry. Monitoring well samples scheduled for metals analyses were filtered in the field at the time of collection; the remaining parameters were determined from unfiltered samples. Samples from the surface water locations were not filtered. Water quality samples were appropriately preserved and submitted to Columbia Analytical Services, Inc. in Jacksonville, Florida for chemical analyses.

4 Blanchard Road P.O. Box 85A Cumberland Center, ME 04021 (207) 829-5016 FAX (207) 829-5692 www.smemaine.com

3. The parameter concentrations for the monitoring wells are generally consistent with values recorded historically with the following exceptions:

   The concentration of manganese measured at MW-307A was 10.4 mg/L, which is a historic high value for manganese measured at this location. The other parameters measured at MW-307A showed no change from historical values. The manganese value is likely an anomaly and will be checked during the next round.

   The concentrations of Iron, Manganese, and Potassium measured at MW-4 increased slightly during the April 2000 sample round. Well MW-4 is a background well. The water level measured at this location during this sampling event was noticeably higher than historical levels at this location, which may possibly account for increases in these metal concentrations.

4. The parameter concentrations for the three surface water locations sampled were consistent with values recorded historically.

The next round of samples is scheduled for April 2001. If you have any questions, please do not hesitate to call Tammie Lavoie at Pulp & Paper of America or me.

Sincerely,

SEVEE & MAHER ENGINEERS, INC.

Guy H. Cote, Jr., P.E.
Chief Engineer

Attachments

cc: T. Lavoie

LEGEND

- MW-4 MONITORING WELL
- SW-1 SURFACE WATER

400 0 400 800 FEET

DWG: SEP96 LA.CFG. MONLOC REV. 6/15/98

FIGURE 1
MONITORING LOCATION MAP
DUMMER YARD
CROWN VANTAGE
BERLIN, NEW HAMPSHIRE

SME
Sevee & Maher Engineers, Inc.